Center Innovation Fund: GSFC CIF

Large Scale Cleaning Telescope Mirrors with Electron Beams

Completed Technology Project (2011 - 2013)

Project Introduction

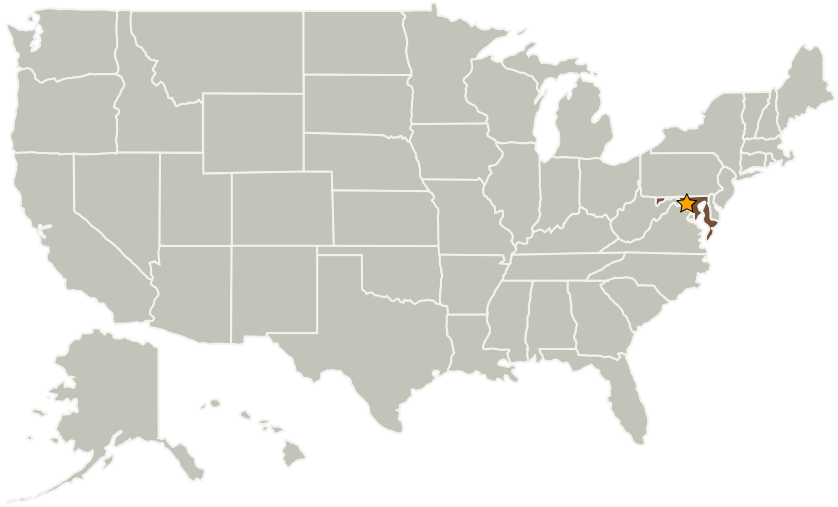
The Cleaning Lenses and Mirrored Surface with Electrons is a technology developed to provide access to large lenses and mirror structures and providing a low risk technique for cleaning their surfaces.

The Cleaning Lenses and Mirrored Surfaces with Electrons tasks include: Development of Fractal Wand Geometries; Vacuum Chamber testing fo Fractal Wand Prototypes; and selection of best prototype.

Anticipated Benefits

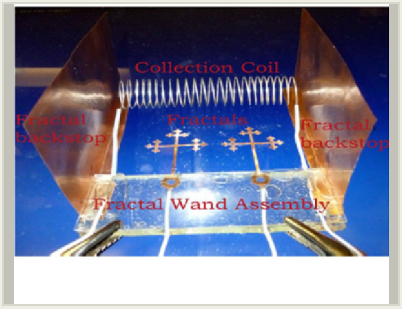
JWST, Micro Shutters, and MMS.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Goddard Space Flight Center(GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland

Primary U.S. Work Locations
Maryland



Project Image ROE FY11 CIF 141 CC Large Scale Cleaning Telescope Mirrors with Electron Beams

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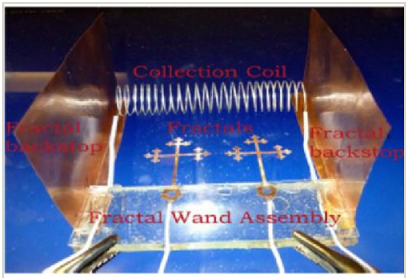
Images



81.jpg
Project Image ROE FY11 CIF 141 CC Large Scale Cleaning Telescope Mirrors with Electron Beams
(https://techport.nasa.gov/image/1171)

Project Website:

http://aetd.gsfc.nasa.gov/

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Center Innovation Fund: GSFC CIF

Project Management

Program Director:

Michael R Lapointe

Program Manager:

Peter M Hughes

Project Manager:

Michael A Johnson

Principal Investigator:

Fred A Minetto

Co-Investigators:

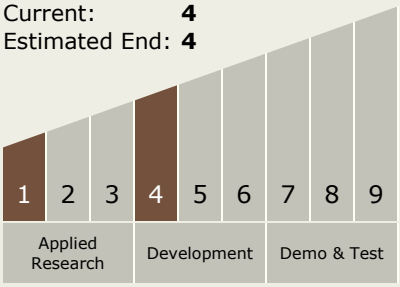
Sharon A Straka
John G Hagopian

Large Scale Cleaning Telescope Mirrors with Electron Beams

Completed Technology Project (2011 - 2013)

Technology Maturity (TRL)

Start: **1**
Current: **4**
Estimated End: **4**



Technology Areas

Primary:

- TX08 Sensors and Instruments
  - TX08.2 Observatories
    - TX08.2.1 Mirror Systems